Work Orde				*923	63*						Page 1
Item ID: Revision ID:	D3017-(	)41		Accept	*N900	<b>040</b>	100	)*	Setup Sta	IV	S1*
Item Name:	Back Fra	me Assembly							Sto	op *N	S2*
Start Date:	10/30/12	Start Qty: 1.0	0 *1*		Cust Item II	D:					
Required Date: Reference:	11/16/12	Req'd Qty: 1.0	° *1*		Customer:						
Approvals:	Proces	s Plan: MLJ	Date: \2-\0-	30 Tooling:	Da	te:			Run Sta		R1*
	<b>QC</b> : _		Date:	SPC (Y/N):	Da	ite:			51	<sup>տ</sup> *N	R2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Reject Qty	Reject Number	Insp. Stamp
Draw Nbr		Revision Nbr						*		······································	<i>_</i>
D3017		Rev B	-   								
100			4130 rod Batch: M 1/8	875 0.00							
*100* Large Fab		Large Fab  Memo		0.00				0	A	13-1-29	<u> </u>
Large Fab			03017-1, D3017-3 and D301	7-5 tubes as per Dwg D3017	7						
		2-Bend	D3017-1 and D3017-3 tube	as per dwg D3017 (DT8598)	)						
		3-Drill	holes in D3017-5 Using DT	8622							
		4-Debu	ırr								
		5-Asse	mble and weld as per Dwg D	3017 using Welding Jig DT8	3598						
		6-Drill	holes in back frame using D	T8621							
110		QC9- Inspect visua	I per QSI004- Fusion Welds	0.00							MAG

0.00

Memo

Quality Control

											DQA:	Date	*
NCR:	Yes /	No				WORK ORDER NON-C	100	NFORN	MANCE / UPDATE		QA Closed:	Date	
:													
Work Orde	er:					DISPOSITION			AGA	AINST DE	PARTMENT	/PROCESS	6-¥
Part f	Part No					Rework Scrap Use-as-is Work Order Update			Skid-tube Crosstube Small Fab Thermoforming Finishing Composite			Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descrip	otion of work order update	l	nitial	Action		Sign &		
Cause	D	ate St	tep	Qty	C	or Non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved									No. of the control of				
							AUL	T CATE	GORY				
Landi	Landing Gear Bending					General Bend		Grain			Ovalized	<u> </u>	Pressure/Forced
	Cra	Centre Not Concentric to O/S Cracks				BOM/Route Broken/Damaged		1	on Incomplete		Over/Under tolerance Part Incorrect		Temperature/Cure Weld
	<del></del>	shed/Crim -	nped.			Burrs	<u> </u>	1	ions Incomplete/Unclear		Part Lost/Mi	issing	Wrong Stock Pulled
	Cuf				<u> </u>	Contamination	<u></u>	Mainte			Part Moved		
		t Treat			<u> </u>	Countersink	_	Mislabe		<u> </u>	Positioned V		
	_	ection Str		Tube	- <u> </u>	Cut Too Short		Misread			Power Loss/	Surge	Other
	Ripples in Bend					Drill Holes	1	Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

Work Order ID 92363 Page 2 October-30-12 9:16:43 AM Item ID: D3017-041 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Back Frame Assembly Start Date: 10/30/12 Start Oty: 1.00 **Cust Item ID: Required Date: 11/16/12 Reg'd Oty:** 1.00 **Customer:** Reference: Run Tooling: Process Plan: Date: Date: Approvals: Stop SPC (Y/N): OC: Date: Date: Reject Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Insp. Work Center ID Description Code Oty Oty Number Stamp **Run Hours** 120 OC5- Inspect part completeness to step on W/O 0.00 \*120\* @ 13-01-21 QC 0.00 Memo Quality Control 130 Grey Sandtex(Ref:4.3.5,6) per QSI005 4.3 0.00 1 & bli31-25 \*130\* Powdercoat 0.00 Powder Coating OC3- Inspect Part Finish 0.00 140 \*140\*

0.00

Memo

QC

Quality Control

											DQA:	Date	:		
NCR:	Yes	/ No				WORK ORDER NON-C	WORK ORDER NON-CONFORMANCE / UPDATE  QA Closed: Date:								
							_				QA Closed:	Date	:		
Work Orde	der					DISPOSITION AGAINST DEP						PARTMENT/PROCESS			
Part f	Part No					Rework Skid-tube Crosstube  Scrap Machining Small Fab  Use-as-is Thermoforming Finishing  Work Order Update Large Fab Composite			ll Fab shing	l	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other			
	•						<u> </u>			<b>L</b>	1	,,			
Root	1				Descri	ption of work order update		Initial	Action		Sign &				
Cause		Date	Step	Qty	(	or Non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	,														
							AUL	T CATE	GCIRY						
Landi		g Gear  Bending Centre Not Concentric to O/S				General Bend BOM/Route		1	Grain Hardware			tolerance	Pressure/Forced Temperature/Cure		
Ì		Cracks Crushed/Crimped.				Broken/Damaged Burrs	$\vdash$	4	on Incomplete ioris Incomplete/Unclear	-	Part Incorrect Part Lost/Missing		Weld Wrong Stock Pulled		
	-	Cuffs	•			Contamination		Mainte			Part Moved				
	П	Heat Frea	ıt			Countersink		Mislabe	led		Positioned \				
,	П			Tube		Cut Too Short		Misread			Power Loss/		Other		
	$\vdash$	Inspection Strip in Tube Ripples in Bend				Drill Holes		Offset			<u>.</u>	- <b>L</b>	•		

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ord October-30-12		363		*923		Page					
Item ID: Revision ID:	D3017-041			Accept *N9				)*	Setup Sta	rt *N	S1*
Item Name:	Back Frame A	Assembly							Sto	<sup>р</sup> *N	S2*
Start Date:	10/30/12	Start Qty: 1.00	*1*		Cust Item I	D:					
Required Date	: 11/16/12	Req'd Qty: 1.00	*1*		Customer:						
Reference:			•								
Approvals:	Process Pla	an:	Date:	Tooling:	D:	ate:	_		Run Sta	I <i>Л</i>	R1*
	QC:		Date:	<b>SPC (Y/N):</b>					Sto	<sup>'p</sup> *N	R2*
Sequence ID/ Work Center I	<b>D</b>	Operation Description	C 4	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150		Identify as per dwg & St	ock Location: 6-17	0.00							
*150* Packaging		Memo		0.00				]X			Je (

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

Packaging

160

\*160\*

Quality Control

Page 3

Q13-01-28

NCR: Yes / No	WORK ORDER NON-COI	NFORMANCE / UPI	DATE	DQA:	Date: _	
<b>,</b>				QA Closed:	Date:	
Work Order:	DISPOSITION		AGAINST DEP	ARTMENT/PI	ROCESS	
Part No.	Rework Scrap	Skid-tube Machining	Crosstube Small Fab		Water Jet Eng. Coor.	Engineering Quality
NCR No.	Use-as-is Work Order Update	Thermoforming Large Fab	Finishing Composite	Rec/Store/	Packaging Supplier	Other

## Description of work order update Initial Action Sign & Root Step Qty Chief Eng Description QC Inspector Cause Date or Non-conformance Date Verification Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved **FAULT CATEGORY Landing Gear** General Pressure/Forced Bending Bend Grain Ovalized BOM/Route Centre Not Concentric to O/S Temperature/Cure Hardware Over/Under tolerance Cracks Broken/Damaged Inspection Incomplete Weld Part Incorrect Crushed/Crimped. Burrs Instructions Incomplete/Unclear Wrong Stock Pulled Part Lost/Missing Cuffs Contamination Maintenance Part Moved Heat Treat Countersink Mislabeled Positioned Wrong Inspection Strip in Tube Power Loss/Surge **Cut Too Short** Misread Other Ripples in Bend **Drill Holes** Offset **Torque Waves in Extrusion** Drawing Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish Folio

## **Picklist Print**

October-30-12 9:16:42 AM

Work Order ID:

92363

Parent Item:

Comments:

D3017-041

Parent Item Name:

Back Frame Assembly

IPP A01.09.19New issue EC

**Start Date:** 10/30/12

Required Date: 11/16/12

Page 1

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Replacement Item ID Purch Item Primary Location Route Seq ID Measure Hand Qty Per Kit Total Qty  M4130NT0.750W.083 4130 RD Tube .750 x.083W  Purchased No Location Location Loc Oty Loc Code  MAT033  Mat033  Last Route Seq ID Wint of Qty on Measure Hand Qty Per Kit Total Qty  Location Measure Hand Qty  Loc Oty Loc Code  MAT033	1ssued 73684 /3.7/	Date Stat Issued
4130 RD Tube .750 x.083W  Location Loc Oty Loc Code	/3 <i>1°</i> H	
<u>Location</u> <u>Loc Oty</u> <u>Loc Code</u>		
	- -	
MAT033 22.387	-	
<del></del>	-	
117579 3.64		
M4130NT0.750W.049 Purchased No 100 f 164.1400 11.125 11.7		
M4130NT0.750W.049 Purchased No 100 f 164.1400 11.125 11.7 4130 RD Tube .750 x.049W	10526 13-1-2	94.
<u>Loc Qty</u> <u>Loc Code</u>		
80" + 28" MAT033 164.14	-	
121025 5.11	-	
122425 40 122812 43.03	-	
123339 78	-/	
D3017-11 Manufactured No 100 Each 86.0000 2 Cap		23
<u>Location</u> <u>Loc Qty</u> <u>Loc Code</u>		
WA 6	_	
90829 6	-	
WA021 80	_	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	
	-	
D3017-7 Manufactured No 100 Each 6.0000 3 Lug	s 13-1-23	### · · · · · · · · · · · · · · · · · ·
<u>Loc Qty</u> <u>Loc Code</u>		
WA 6	_	
90325 6 .	_	
86873 / 3		

											DQA:	Date:			
NCR:	es /	No	•			WORK ORDER NON-	COI	NFORM	MANCE / UPDATE		QA Closed:	Date:			
Work Order:												PARTMENT/PROCESS			
Part No						Rework Scrap Use-as-is Work Order Update	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Composite			Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other			
Root					Descri	iption of work order update		Initial	Action		Sign &				
Cause	(	Date	Step	Qty		or Non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector		
Doc/Data							ŀ								
Equip/Tooling															
Operator							1								
Material															
Setup															
Other															
Process												ļ			
Supplier													,		
Training												1			
Unapproved															
						F	AUI	LT CATE	GORY						
Landi	ng Gea	r				General	_	_			•		<b>-</b>		
	Ве	nding				Bend		Grain			Ovalized		Pressure/Forced		
	Centre Not Concentric to O/S				o/s	_BOM/Route		Hardwa	re	<u> </u>	Over/Under	tolerance	Temperature/Cure		
	Cra	acks				Broken/Damaged	L	Inspect	ion Incomplete		Part Incorre	ct	Weld		
	Cri	ushed/	Crimped.			Burrs		Instruct	tions Incomplete/Unclear		Part Lost/M	issing	Wrong Stock Pulled		
	Cu	ffs				Contamination		Mainte	enance		Part Moved				
	He	Heat Treat				Countersink		Mislabe	eled		Positioned Wrong				

Misread

Out of Calibration

Out of Secluence

Outside Dimensions

Offset

Other

Power Loss/Surge

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G







